

Abstract:

A communications control unit and a process for transmitting information within a distributed real-time computer architecture, consisting of a plurality of error-tolerant units in which the information to be transmitted consists of a control field (K), a data field (D) and a CRC (cyclic-redundancy check) field (CRC). The CRC field consists of standard information from the concatenation of the control field (K), the data field (D) and a local internal status of a transmitting communications control unit. The local internal status of such a control unit is provided by the combination of the overall time with a peer field in which to each error-tolerant unit is allocated a given bit, the TRUE status of which indicates correct operation and the FALSE status of which indicates an error status, so that a receiving communications control unit can, by testing an incoming item of data, recognise both incorrect information and a difference between the internal statuses of the transmitting and receiving communications control unit.